Genstat 64-bit Release 22.1 ( PC/Windows 11) 30 September 2022 15:43:14

Copyright 2022, VSN International Ltd.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Genstat Twenty-second Edition

Genstat Procedure Library Release PL30.1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 SET [WORKINGDIRECTORY='C:/Users/mgr/OneDrive - University of St Andrews/Desktop/Final Multiv'; DIAGNOSTIC=messages]  
 2 "Data taken from file: '\  
 -3 C:/Users/mgr/OneDrive - University of St Andrews/Desktop/Final Multiv/Females.xlsx\  
 -4 '"  
 5 DELETE [REDEFINE=yes] \_stitle\_: TEXT \_stitle\_  
 6 READ [PRINT=\*; SETNVALUES=yes] \_stitle\_  
 10 PRINT [IPRINT=\*] \_stitle\_; JUST=left

Data imported from Excel file: C:\Users\mgr\OneDrive - University of St Andrews\Desktop\Final Multiv\Females.xlsx

on: 30-Sep-2022 15:43:19

taken from sheet "Females", cells A2:O174

11 DELETE [REDEFINE=yes] Population,Line,CCRT\_F,CSM\_F,DT\_A\_F,Dia\_F,DW\_F,Fec\_F,\  
 12 HSM\_F,LS\_F,Pgm\_Total\_F,SR\_F,TL\_F,Via\_NA,WA\_L\_F  
 13 UNITS [NVALUES=\*]  
 14 DELETE [REDEFINE=yes] Population  
 15 TEXT [NVALUES=173] Population  
 16 READ Population

Identifier Minimum Mean Maximum Values Missing

Population 173 0

29 DELETE [REDEFINE=yes] Line  
 30 TEXT [NVALUES=173] Line  
 31 READ Line

Identifier Minimum Mean Maximum Values Missing

Line 173 0

48 DELETE [REDEFINE=yes] CCRT\_F  
 49 VARIATE [NVALUES=173] CCRT\_F  
 50 READ CCRT\_F

Identifier Minimum Mean Maximum Values Missing

CCRT\_F 1275 1600 2125 173 1

94 DELETE [REDEFINE=yes] CSM\_F  
 95 VARIATE [NVALUES=173] CSM\_F  
 96 READ CSM\_F

Identifier Minimum Mean Maximum Values Missing

CSM\_F 0.8129 1.175 1.512 173 1

140 DELETE [REDEFINE=yes] DT\_A\_F  
 141 VARIATE [NVALUES=173] DT\_A\_F  
 142 READ DT\_A\_F

Identifier Minimum Mean Maximum Values Missing

DT\_A\_F 219.7 231.1 256.1 173 2

186 DELETE [REDEFINE=yes] Dia\_F  
 187 VARIATE [NVALUES=173] Dia\_F  
 188 READ Dia\_F

Identifier Minimum Mean Maximum Values Missing

Dia\_F -0.6471 1.672 5.223 173 5

231 DELETE [REDEFINE=yes] DW\_F  
 232 VARIATE [NVALUES=173] DW\_F  
 233 READ DW\_F

Identifier Minimum Mean Maximum Values Missing

DW\_F 0.3912 0.4647 0.5570 173 4

277 DELETE [REDEFINE=yes] Fec\_F  
 278 VARIATE [NVALUES=173] Fec\_F  
 279 READ Fec\_F

Identifier Minimum Mean Maximum Values Missing

Fec\_F 27.01 69.69 121.9 173 4

323 DELETE [REDEFINE=yes] HSM\_F  
 324 VARIATE [NVALUES=173] HSM\_F  
 325 READ HSM\_F

Identifier Minimum Mean Maximum Values Missing

HSM\_F 274.5 361.2 423.6 173 2

369 DELETE [REDEFINE=yes] LS\_F  
 370 VARIATE [NVALUES=173] LS\_F  
 371 READ LS\_F

Identifier Minimum Mean Maximum Values Missing

LS\_F 35.09 46.84 59.29 173 2

415 DELETE [REDEFINE=yes] Pgm\_Total\_F  
 416 VARIATE [NVALUES=173] Pgm\_Total\_F  
 417 READ Pgm\_Total\_F

Identifier Minimum Mean Maximum Values Missing

Pgm\_Total\_F 0.3941 0.5722 0.8790 173 4

461 DELETE [REDEFINE=yes] SR\_F  
 462 VARIATE [NVALUES=173] SR\_F  
 463 READ SR\_F

Identifier Minimum Mean Maximum Values Missing

SR\_F 65.90 93.95 125.9 173 2

507 DELETE [REDEFINE=yes] TL\_F  
 508 VARIATE [NVALUES=173] TL\_F  
 509 READ TL\_F

Identifier Minimum Mean Maximum Values Missing

TL\_F 923.9 985.9 1059 173 7

552 DELETE [REDEFINE=yes] Via\_NA  
 553 VARIATE [NVALUES=173] Via\_NA  
 554 READ Via\_NA

Identifier Minimum Mean Maximum Values Missing

Via\_NA 0.6104 0.9568 1.251 173 1

598 DELETE [REDEFINE=yes] WA\_L\_F  
 599 VARIATE [NVALUES=173] WA\_L\_F  
 600 READ WA\_L\_F

Identifier Minimum Mean Maximum Values Missing

WA\_L\_F 2628 2851 3017 173 1

644 %PostMessage 1129; 0; 10000001 "Sheet update completed"  
 645 FCORRELATION [PRINT=correlations,test; METHOD=twosided] CCRT\_F,CSM\_F,Dia\_F,DT\_A\_F,\  
 646 DW\_F,Fec\_F,HSM\_F,LS\_F,Pgm\_Total\_F,SR\_F,TL\_F,Via\_NA,WA\_L\_F

Correlations

CCRT\_F 1 -

CSM\_F 2 -0.0807 -

Dia\_F 3 0.1137 -0.0219 -

DT\_A\_F 4 0.0726 -0.0406 -0.0475 -

DW\_F 5 -0.1189 -0.0225 0.0158 0.0986 -

Fec\_F 6 -0.0332 0.1437 0.0110 0.0107 -0.0328 -

HSM\_F 7 0.0885 -0.0546 0.1810 0.0094 0.0399 0.0189

LS\_F 8 -0.1096 0.0432 -0.1499 -0.0202 -0.1278 0.1993

Pgm\_Total\_F 9 0.0022 -0.1033 0.0912 0.0133 0.0703 0.0476

SR\_F 10 -0.0300 0.0886 0.1112 0.1303 0.5799 0.2080

TL\_F 11 -0.0615 0.1070 -0.0925 0.1201 0.2983 -0.1287

Via\_NA 12 -0.0042 -0.0062 0.0894 0.0241 -0.0337 0.4259

WA\_L\_F 13 -0.1203 -0.0308 0.0180 0.1512 0.3735 -0.0318

1 2 3 4 5 6

HSM\_F 7 -

LS\_F 8 0.0429 -

Pgm\_Total\_F 9 0.2510 -0.0071 -

SR\_F 10 0.0381 0.0727 0.0479 -

TL\_F 11 -0.0889 -0.2798 0.0319 -0.0006 -

Via\_NA 12 0.2981 0.2039 0.0616 0.2748 -0.2210 -

WA\_L\_F 13 0.0701 -0.3481 0.2909 0.2124 0.3662 0.0164

7 8 9 10 11 12

WA\_L\_F 13 -

13

Number of observations: 165

Two-sided test of correlations different from zero

CCRT\_F 1 -

CSM\_F 2 0.3031 -

Dia\_F 3 0.1461 0.7804 -

DT\_A\_F 4 0.3543 0.6047 0.5444 -

DW\_F 5 0.1282 0.7741 0.8406 0.2076 -

Fec\_F 6 0.6716 0.0655 0.8880 0.8920 0.6755

HSM\_F 7 0.2582 0.4865 0.0200 0.9051 0.6108

LS\_F 8 0.1611 0.5820 0.0547 0.7967 0.1018

Pgm\_Total\_F 9 0.9780 0.1865 0.2441 0.8655 0.3693

SR\_F 10 0.7023 0.2577 0.1550 0.0953 <0.001

TL\_F 11 0.4325 0.1712 0.2376 0.1244 <0.001

Via\_NA 12 0.9574 0.9373 0.2535 0.7588 0.6670

WA\_L\_F 13 0.1239 0.6945 0.8187 0.0526 <0.001

1 2 3 4 5

Fec\_F 6 -

HSM\_F 7 0.8101 -

LS\_F 8 0.0103 0.5844 -

Pgm\_Total\_F 9 0.5435 0.0011 0.9276 -

SR\_F 10 0.0073 0.6269 0.3535 0.5410 -

TL\_F 11 0.0994 0.2561 <0.001 0.6839 0.9934

Via\_NA 12 <0.001 <0.001 0.0086 0.4320 <0.001

WA\_L\_F 13 0.6847 0.3709 <0.001 <0.001 0.0062

6 7 8 9 10

TL\_F 11 -

Via\_NA 12 0.0043 -

WA\_L\_F 13 <0.001 0.8340 -

11 12 13

647 PARTIALCORRELATIONS [PRINT=correlations] CCRT\_F,CSM\_F,Dia\_F,DT\_A\_F,DW\_F,Fec\_F,HSM\_F,\  
 648 LS\_F,Pgm\_Total\_F,SR\_F,TL\_F,Via\_NA,WA\_L\_F

Partial correlations

CCRT\_F

CSM\_F -0.078

Dia\_F 0.067 -0.002

DT\_A\_F 0.099 -0.059 -0.058

DW\_F -0.116 -0.127 -0.046 -0.034

Fec\_F -0.008 0.145 -0.008 0.003 -0.055

HSM\_F 0.093 0.020 0.146 0.011 0.112 -0.118

LS\_F -0.161 0.021 -0.196 0.039 -0.046 0.088 0.046

Pgm\_Total\_F 0.020 -0.098 0.062 -0.035 -0.033 0.073 0.222

SR\_F 0.078 0.147 0.128 0.104 0.619 0.101 -0.118

TL\_F 0.002 0.163 -0.080 0.093 0.248 -0.019 -0.053

Via\_NA -0.029 -0.081 0.018 -0.001 -0.175 0.368 0.312

WA\_L\_F -0.147 -0.027 -0.043 0.111 0.164 -0.009 0.018

CCRT\_F CSM\_F Dia\_F DT\_A\_F DW\_F Fec\_F HSM\_F

LS\_F

Pgm\_Total\_F 0.101

SR\_F 0.115 -0.004

TL\_F -0.128 -0.016 -0.166

Via\_NA 0.093 -0.065 0.256 -0.101

WA\_L\_F -0.328 0.296 0.075 0.238 0.096

LS\_F Pgm\_Total\_F SR\_F TL\_F Via\_NA WA\_L\_F

Based on 165 rows of data.

The matrix shows the partial correlation between each pair of variables, adjusting for all the other variables in the matrix.

